



31 30 29	28 27 26 25	24 23 22	21 20 19 18	17	16 15	14	13 12	11	10	9 8	76543210
Group S/P	CtrlOp	E/DI UAF	InstrCnt	0	0 0	SU	LU ALL	J MAU	DSU	Vb	VIMOFFS

F16. 2A

LV Syntax/Operation

210

Instruction	Operands	Operation
LV.[SP]	V[01], VIMOFFS,	(V[01]+VIMOFFS)[SU].enable ← 0 if (D=S)
	InstrCnt,	(V[01]+VIMOFFS)[LU].enable ← 0 if (D=L)
	D={SLAMD},	(V[01]+VIMOFFS)[ALU].enable ← 0 if (D=A)
	F=[AMDN]	(V[01]+VIMOFFS)[MAU].enable ← 0 if (D=M)
		(V[01]+VIMOFFS)[DSU].enable ← 0 if (D=D)
		(V[01]+VIMOFFS)[UAF] ← ALU if (F=A or F=)
		(V[01]+VIMOFFS)[UAF] ← MAU if (F=M)
		$(V[01]+VIMOFFS)[UAF] \leftarrow DSU if (F=D)$
		(V[01]+VIMOFFS)[UAF] ← None if (F=N)
		for (i=0; i< InstrCnt; i++) {
		Load instruction into (V[01]+VIMOFFS)
		if (SU Instr AND D != S) { (V[01]+VIMOFFS)[SU].enable ← 1 }
		if (LU Instr AND D != L) { (V[01]+VIMOFFS)[LU].enable ← 1 }
		if (ALU Instr AND D != A) { (V[01]+VIMOFFS)[ALU].enable ← 1 }
		if (MAU Instr AND D != M) { (V[01]+VIMOFFS)[MAU].enable ← 1 }
		if (DSU Instr AND D != D) { (V[01]+VIMOFFS)[DSU].enable ← 1 }
		}

F16.2B

31 30	29																				7654321	Ö
Group	S/P	Ctr	Юp	VΧ	UA	(F)	0	0	0	0	0	0	0	SU	LU	ALU	MAU	DSU	Vb	0	VimOffs	l

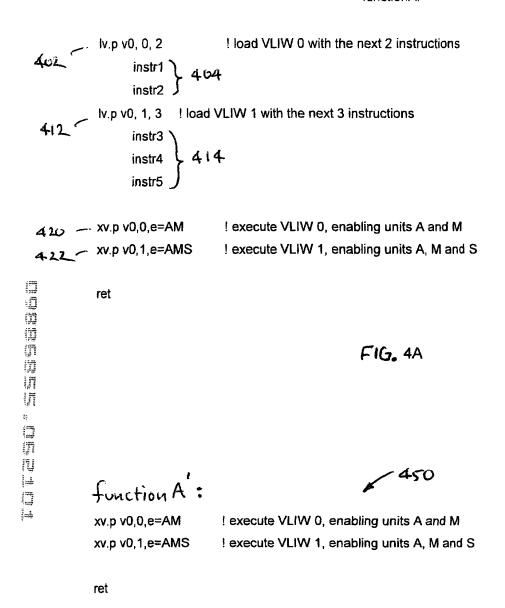
F16.3A

XV Syntax/Operation

210

Instruction	Operands	Operation
XV.[SP]	V[01], VIMOFFS,	Execute (V[01]+VIMOFFS)[SU] if (E=S)
	E={SLAMD}, F=[AMDN]	Execute (V[01]+VIMOFFS)[LU] if (E=L)
		Execute (V[01]+VIMOFFS)[ALU] if (E=A)
		Execute (V[01]+VIMOFFS)[MAU] if (E=M)
		Execute (V[01]+VIMOFFS)[DSU] if (E=D)
		$(V[01]+VIMOFFS)[UAF] \leftarrow ALU \text{ if } (F= \text{ or } F=A)$
		$(V[01]+VIMOFFS)[UAF] \leftarrow MAU if (F=M)$
		$(V[01]+VIMOFFS)[UAF] \leftarrow DSU \text{ if } (F=D)$
		(V[01]+VIMOFFS)[UAF] ← None if (F=N)

F16.3B



F1G. 4B

510 - 0: Program start

511 - 1: loop 10 times

512 - execute VLIW a

513 - if condition then

514 - 2: execute VLIW b

515 - 3: else

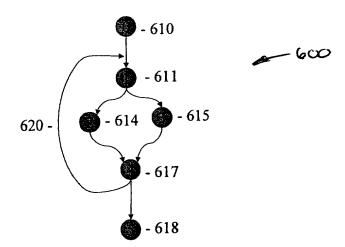
516 - execute VLIW c

end if

517 - 4: end loop

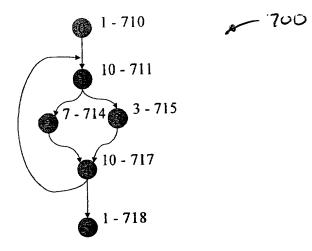
518 - 5: Program end

F16.5

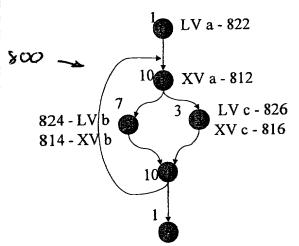


F16.6

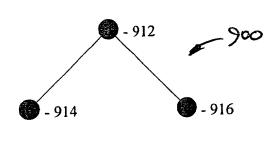




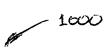
F16. 7



F16.8



F16.9



```
1001 - done := false;
 1002 - while not done do {
 1003 -
          done := true;
 1004 -
           Bestimprovement := 0;
1005 ~
           for each Lvi from LVlist do {
1006 -
              [NewState, improvement] := MoveUp(Lvi, CurrentState);
1007 -
              if improvement > BestImprovement then {
1008 -
            BestState := NewState;
1009 -
                   BestImprovement := improvement;
1010 -
                    done := false;
              }
          }
1011 -
          if not done then {
1012 -
               CurrentState := BestState;
          }
      }
```

F16.10